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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER	
HALIYUR, VENKATESH N	

  

ART UNIT	PAPER NUMBER
2616	

  

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08/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/079,984	<b>Applicant(s)</b> BASTURK, EROL	
	<b>Examiner</b> Venkatesh Haliyur	<b>Art Unit</b> 2616	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 February 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-39 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 25-39 is/are allowed.
- 6) ☒ Claim(s) 1-19, 21-24 is/are rejected.
- 7) ☒ Claim(s) 20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## **DETAILED ACTION**

### ***Response to Amendment***

1. The amendment filed on 02/26/2007 under has been considered but is ineffective to overcome Dobbins et al reference for claims 1-24. However, the amendment filed on 02/26/2007 is sufficient to overcome the rejection of claims 25-39 communicated via previous office action and hence the rejection of claims 25-39 has been withdrawn. Rejection follows.

2. Claims 1-39 are pending in the application.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-19,21-24 rejected under 35 U.S.C. 102(b) as anticipated by Dobbins et al. [US Pat: 5,751,971].

Regarding claim 1, Dobbins et al. disclosed an apparatus and method in "Internet Protocol (IP) Work Group Routing", a communication system (**router, item 11 of Fig 2**) having a plurality of physical communication ports (**items 12A, 12B of Fig 2**), a hierarchical bond (**association of network and subnet levels, col 5 lines 47-67**) communication interface comprising (**col 2, lines 41-63**): a logical interface (**IP interface**) as a component of the bond at a top level (**network/high level**) of the hierarchy defining a plurality of data links (**col 3, lines 1-37**), and a first subjugate logical interface at a second level (**subnet/low-level IP interface, items 13A and 13B of Fig 2**) of the hierarchy as a component of the top-level logical interface defining a portion of the data links as defined in the logical interface at the top level of the hierarchy (**physical and logical interface associated with workgroups, col 5, lines 47-67, col 6, lines 1-28**).

Regarding claims 2-4,8-10, Dobbins et al. disclosed the top level and the second level comprising one or more physical interfaces (**items 12A, 12 B of Fig 2**) for multilevel networks (**items 13 and 14 of Fig 2, col 3, lines 1-5,col 4, lines 5-11**) and one or more levels of the hierarchical bond and data is routed by addressing the bond, which then uses logical and physical components (**IP address and physical address**) of the hierarchy for data transmission (**association of network and subnet levels, col 5 lines 47-67**).

Regarding claims 5-6,11-12, Dobbins et al. disclosed a data router (**item 11 of Fig 2**) in a data packet network and data packet network is the Internet network (**item 16 of Fig 2, col 5, lines 47-52**).

Regarding claim 7, Dobbins et al. disclosed a communication system (**Router, item 11 of Fig 2**) having a plurality of physical communication ports (**items 12A, 12B of Fig 2, col 2, lines 41-67, col 3, lines 1-37**), a method for grouping ports in data routing (**col 2, lines 41-67**), comprising the steps of defining a logical interface at a top level (**high level network IP address**) of a hierarchical bond by grouping a plurality of ports; defining a first subjugate logical interface (**low level/subnet IP address**) at a second level of the hierarchical bond as an element of the top-level logical interface by defining a portion of the plurality of ports as defined in the logical interface at the top level of the bond; and routing data by addressing the top-level bond (**single IP address to many physical interfaces**), which then uses logical and physical ports and interfaces of the hierarchy (**IP and Physical addresses, col 3, lines 1-5**) for data transmission (**Fig 2, col 5, lines 47-67, col 6, lines 1-28**)

Regarding claims 13, Dobbins et al. disclosed a communication system, (**Router, item 11 of Fig 2**), a control system for managing links in data routing, comprising: one or more hierarchical bonds (**association of network and subnet levels, col 5 lines 47-67**) comprising a logical interface at a top level including a plurality of data links; a first subjugate logical interface at a second level of the hierarchical bond as an element of the top-level logical interface (**network/subnet IP interface, items 13A and 13B of Fig 2, col 3, lines 1-37**); a first portion recording (**lookup table**) availability status of the hierarchical bonds (**status, item 36 of Fig 3**), for routing of data by monitoring characteristics of both logical and physical interfaces and data links of the

hierarchical bonds (**col 10, lines 9-65**) and a second portion providing configuration input for use in the monitoring by the first portion (**Figs 2-6, col 6, lines 1-67**)

Regarding claims 14-15, Dobbins et al. disclosed thresholds (**begin and end IP address, item 52 and 53 of Fig 5**) are configured for an interface characteristic through the second portion for individual ones of the logical interfaces (**IP interface**), a logical interface considered up (**row status, active**) having a determined amount of data links with sufficient bandwidth or down (**row status, not ready/not in service**) having a determined amount of data links with insufficient bandwidth according to the current threshold value of the characteristic for the interface in relation to the value of the configured threshold (**IP address range**) and the threshold configured for a logical interface is an up threshold (**begin IP address**) such that the logical interface is considered up (**active**) if the instant value of the threshold characteristic for the logical interface has the configured relationship to the configured value of the up threshold monitoring [**Figs 3-6, col 6, lines 45-67, col 7, 1-67, col 8, lines 1-67**].

Regarding claims 16-17, Dobbins et al disclosed a threshold set for a logical interface (**IP interface**) is a down threshold such that that the logical interface is considered down (**row status, not ready**) if the instant value of the threshold characteristic for the logical interface has the configured relationship to the configured value of the down threshold and two threshold values differing in magnitude (**begin and end IP address**) are configured for an individual one of the logical interfaces, one being an up threshold (**begin IP address**), and the other a down threshold (**end IP address**), such that the logical interface may be considered up (**row status, active**) even though it

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no longer meets the configured relationship of the up threshold, but does not yet meet the configured relationship for the down threshold (**interface invalid**), or may be considered down (**row status, not ready/not in service**) even though the threshold characteristic for the interface no longer meets the configured relationship for the down threshold, but does not yet meet the configured relationship for the up threshold [**Figs 3-6, col 6, lines 45-67, col 7, 1-67, col 8, lines 1-67**].

Regarding claims 18-19, Dobbins et al. disclosed that the first portion periodically evaluates the status of the hierarchical bonds for routing data by determining the up or down status of each bond (**row status**), beginning with the lowest level in the hierarchy (**subnet/host**) and proceeding upward to the highest level (**network**) of the bond and the second portion the second portion comprises one or more of a graphical user interface (**user configured entries**), a control line interface, for configuring bond characteristics, or an SNMP interface for configuring bond characteristics. [**Figs 3-6, col 5, lines 60-67, col 6, lines 1-29**].

Regarding claims 21-24, Dobbins et al. disclosed that the communication system comprises a plurality of nodes (**router, physical networks having hosts, internet, items 11, 13A, 13B & 14 of Fig 2**), each having a plurality of physical ports (**physical interfaces items 12A, 12B, 15 of Fig 2**) wherein bonds are defined for individual nodes using the ports specific to the nodes (**different IP addresses for networks and internet**), and the control system (**router, item 11 of Fig 2**) comprises a plurality of first portions each specific to an individual one of the nodes (**physical network and hosts**), and a common second portion providing configuration input to the plurality of nodes (**IP**

**address of the network portion, col 5, lines 44-67)** and the characteristic for thresholds associated with an interface (**begin and end IP addresses**) is the up (**row status, active**) or down (**row status, not ready/not in service, col 6, lines 1-67**) state of components of the interface, expressed as a number up (**1, in item 38 of Fig 3**) or a number down (**0, in item 38 of Fig 3**) and the characteristic for thresholds associated with an interface is a percentage of the number of components of the interface having an up or a down state (**averaging over an interval, col 7, lines 1-67**) and the characteristic for thresholds is a fixed bandwidth value and the characteristic for thresholds is a percentage of potential bandwidth [**Figs 2,3-6, col 5, lines 44-67, col 6, lines 1-67, col 7, lines 1-67, col 8, lines 1-67, col 9, lines 1-25**].

***Allowable Subject Matter***

5. Claim 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, because the prior art of record does not teach the control system of the currently amended claim 13, comprising a plurality of nodes each having a plurality of physical ports, wherein bonds are defined for individual nodes using the ports specific to the nodes, and the control system comprises a plurality of first portions each specific to an individual one of the nodes, and a common second portion providing configuration input to the plurality of nodes.



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6. Claims 25-39 are allowed as prior art of record does not teach the limitations as in amendment for managing links in data routing, the control system having a first portion recording availability status of the hierarchical bonds for routing of data by monitoring status either up or down of both logical and physical interfaces and ports of the at least one hierarchical bond; and a second portion providing configuration input for use in the monitoring by the first portion.

### ***Response to Arguments***

7. Applicant's arguments filed on 02/26/2007 have been fully considered but they are not persuasive for claims 1-19,21-24. With respect to applicant's argument that Dobbins et al does not teach having bonds within bonds and true hierarchical bonding structure which was not known at the time of the invention, Examiner respectfully traverses the applicant(s) to col 5, lines 60-67, col 6, lines 1-28, where Dobbins et al disclosed an hierarchical tree structure that associates (binds) the physical and logical interfaces for workgroup subnets and hence Dobbins et al establishes a hierarchical tree bonding structure in their invention.

### ***Conclusion***

8. Any inquiry concerning this communication or earlier communications should be directed to the attention to Venkatesh Haliyur whose phone number is 571-272-8616.

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The examiner can normally be reached on Monday-Friday from 9:00AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached @ (571)-272-7884. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2600 or fax to 571-273-8300.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

Venkatesh Haliyur

Patent Examiner

*PH 08/02/07*

EDAN ORGAD  
PRIMARY PATENT EXAMINER

*Edan Orgad 8/6/07*